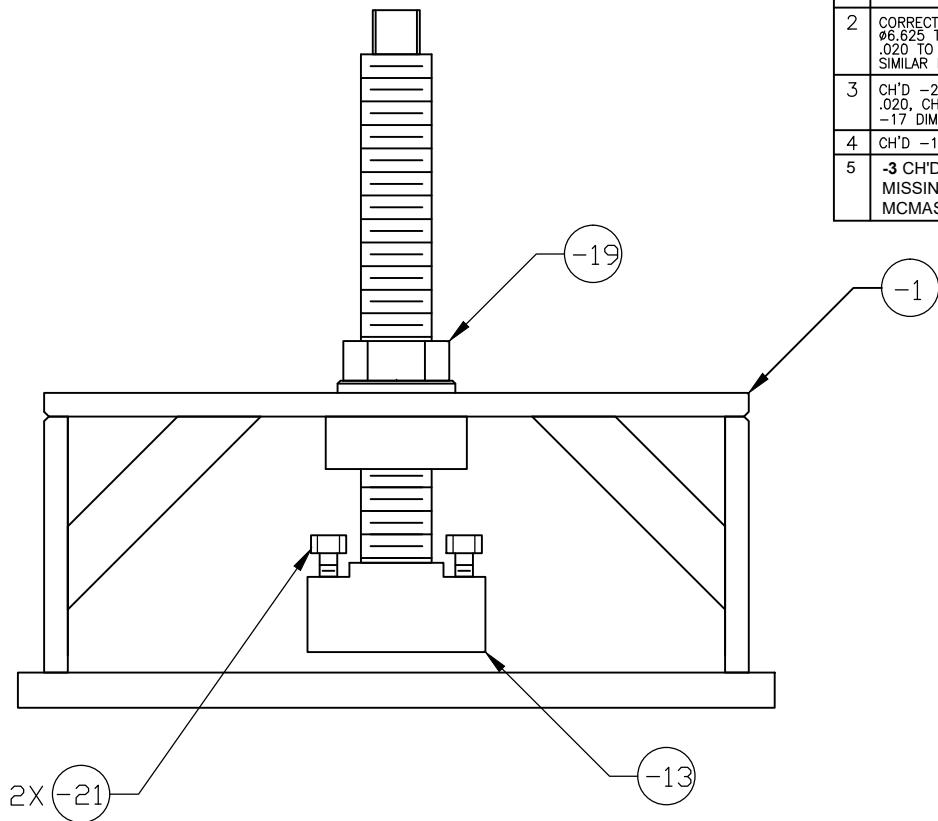


This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
1	ADDED MISSING DIM. 1.000 -17, CH'D -5 LENGTH IN BOM TO 7-3/4. CH'D THICKNESS -3 FROM .250 TO (.375) & CH'D BOM THICKNESS FROM 1/2 TO 3/8, ADDED 4 EA. Ø1/8 x 1/4 ROLL PINS -23. CH'D OVERALL HEIGHT -1 FROM 3.020 TO 3.165 +1/32-1/8, ADDED Ø.125 HOLES FOR ROLL PINS ON -3, -5, -7, ADDED FIT TO -11 FOR WELDING TO Ø1.500 COUNTERBORE. CH'D WELD AT -3 & -7. ALL CHANGES PER S.E., G.E.	1/13/11	RJC RW
2	CORRECTED -3 Ø.210 HOLE LOCATIONS, CH'D O.D. FROM Ø8.040 TO Ø8.00, CH'D I.D. FROM Ø6.625 TO Ø6.630, CH'D LOCATION OF AFT & FWD TEXT PER S.E. ADDED FLATNESS TOLERANCE .020 TO -1 PER G.E. CORRECTED -5 ENGRAVE NOTE. MOVED DOWEL PIN HOLES TO MATCH SIMILAR MANUFACTURED PART PER G.E.	3/11/11	RJC SE
3	CH'D -23 FROM STEEL, ASSEMBLED OVERALL HEIGHT -1 CH'D FROM 3.165 & FLATNESS FROM .020, CH'D -3, -5, -7, -15 DIMENSIONS TO MEET FACTORY PART, CH'D -11 DESIGN, CH'D -17 DIMENSION BETWEEN HOLES FROM 1.440 PER S.E.	12/13/11	RJC SE
4	CH'D -1 FLATNESS TOLERANCE FROM .003 TO .010 PER G.E.	3/1/12	RJC GE
5	-3 CH'D TOLERANCE ON DIM WAS Ø6.630 IS Ø6.630 +.003-.000. -11 ADDED MISSING DIM .03 X 45°. -19 CH'D B/O INFO WAS MCMASTER-CARR #90499A640 IS MCMASTER-CARR #94895A840.	4/28/14	DPD GE



ASSY QTY	ASSY QTY	B/O	PART #	UNIT QTY	DESCRIPTION	MATERIAL	B/O INFORMATION OR SPECIFICATIONS	Pg.
				1	WELDMENT			2
		1		-3	BASE	1018	3/8 x 8-1/4 x 8-1/4	3
		1		-5	PLATE	1018	1/4 x 2 x 7-5/8	4
		2		-7	LEG	1018	1/4 x 2 x 2-7/8	5
		2		-9	GUSSET	1018	1/4 x 5/8 x 3	6
		1		-11	BUSHING	1018	Ø1-1/2 x 1-1/16	7
				-13	1	WELDMENT		8
		1		-15	BOLT	ALL THREAD	3/4-16 UNF x 7-1/16	9
		1		-17	HEAD	1018	1 x 1-1/4 x 2	10
		B/O	-19	1	HEX NUT	STEEL	3/4-16 UNF MCMASTER-CARR #94895A840	1
			-21	2	HEX HEAD CAP SCREW	STEEL	10-32 UNF x 5/8 AIRCRAFT SPRUCE #AN3-5A	1
			-23	8	ROLL PIN	S.S.	Ø1/8 x 1/4 MCMASTER-CARR #92373A173	1
ASSY -13	ASSY -1							

NOTE:
TOOL PART OF KIT RBW6305G01331-3G.

RB RED BARN MACHINE

TITLE REACTION CLUTCH IN RACE REMOVAL

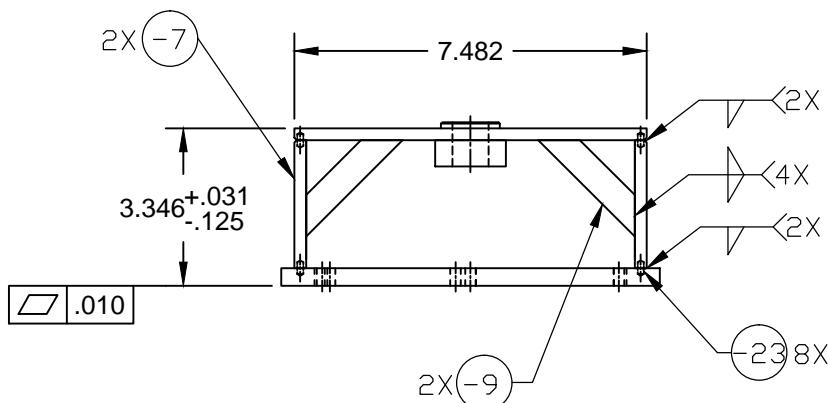
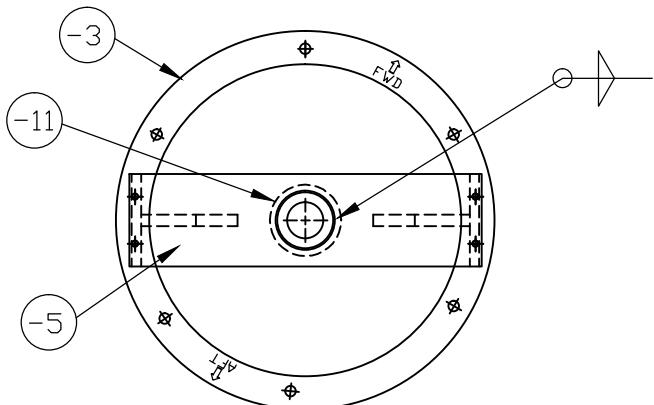
DWG NO. RBW6305G03031-3G REV 5

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: CLOUGH
TOLERANCES ON:	APPROVED <i>D. Weil</i>
DECIMALS .XXX ± .005	FRACTIONS ± 1/32
.XX ± .01	ANGLES ± .5°
.X ± .1	SPEC
	USED ON MODEL
UNLESS OTHERWISE SPECIFIED	AW139
1. BREAK ALL SHARP EDGES	
.015 x 45° PR. 015 R.	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	

SCALE 1:2 DATE 3-30-10 SHEET 1 of 10

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REV	DESCRIPTION	REVISIONS		
		DATE	INITIAL	APPROVED
1	ADDED MISSING DIM. 1.000 -17, CH'D -5 LENGTH IN BOM TO 7-3/4. CH'D THICKNESS -3 FROM .250 TO (.375) & CH'D BOM THICKNESS FROM 1/2 TO 3/8, ADDED 4 EA. $\phi 1/8 \times 1/4$ ROLL PINS -23. CH'D OVERALL HEIGHT -1 FROM 3.020 TO 3.165 $+.132/-1/8$, ADDED $\phi .125$ HOLES FOR ROLL PINS ON -3, -5, -7, ADDED FIT TO -11 FOR WELDING TO $\phi 1.500$ COUNTERBORE. CH'D WELD AT -3 & -7. ALL CHANGES PER S.E., G.E.	1/13/11	RJC	RW
2	ADDED FLATNESS TOLERANCE .020 TO -1 PER G.E.	3/11/11	RJC	SE
3	ASSEMBLED OVERALL HEIGHT -1 CH'D FROM 3.165 & FLATNESS FROM .020 PER S.E.	12/13/11	RJC	SE
4	CH'D -1 FLATNESS TOLERANCE FROM .003 TO .010 PER G.E.	3/1/12	RJC	GE

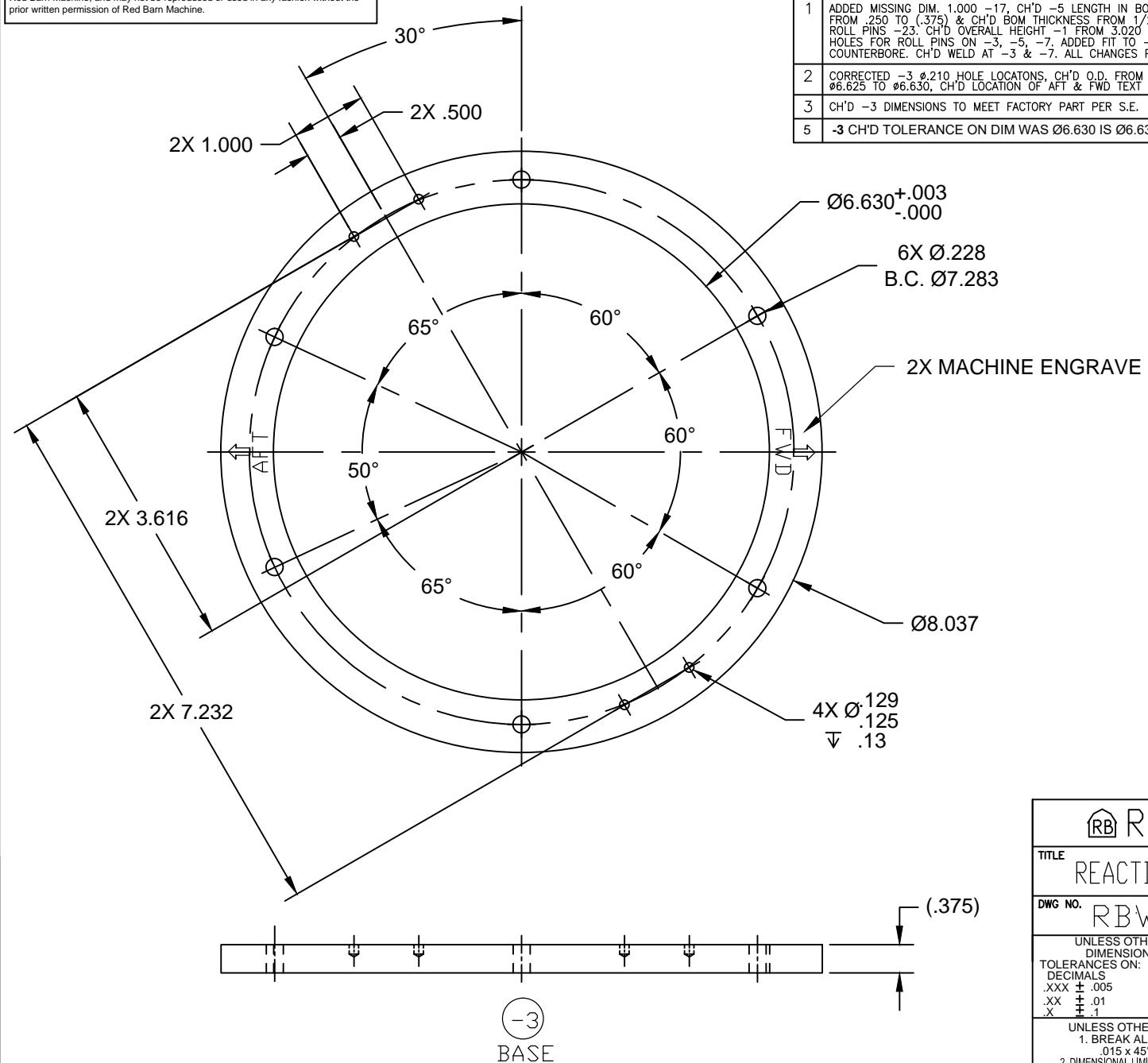


RB RED BARN MACHINE	
REACTION CLUTCH IN RACE REMOVAL	
DWG NO.	REV 5
DWG NO. RBW6305G03031-3G-1	
DRAWN BY: CLOUGH	
APPROVED <i>D. Weil</i>	
TOLERANCES ON: DECIMALS $.XXX \pm .005$ FRACTIONS $\pm 1/32$ $.XX \pm .01$ ANGLES $\pm 1^\circ$ $.X \pm .1$	
HEAT TREAT	
FINISH CAD PLATE YELLOW	
SPEC QQ-P-416F, TYPE II CLASS II	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES $.015 \times 45^\circ$ PR. 015 R.	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
USED ON MODEL	
AW139	
SCALE 1:3	DATE 3-30-10
SHEET 2 of 10	

(-1)
WELDMENT

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

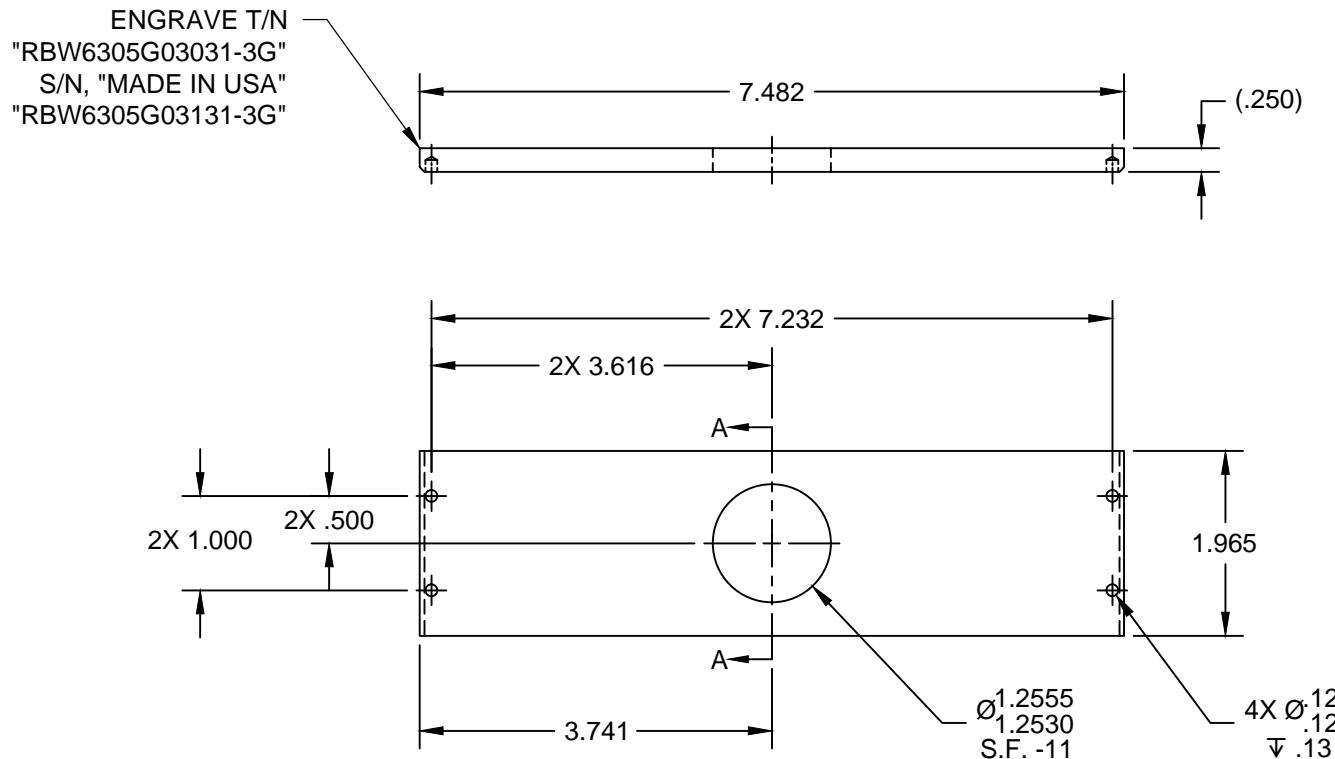
REVISIONS		
REV	DESCRIPTION	DATE
		INITIAL
1	ADDED MISSING DIM. 1.000 -17, CH'D -5 LENGTH IN BOM TO 7-3/4. CH'D THICKNESS -3 FROM .250 TO (.375) & CH'D BOM THICKNESS FROM 1/2 TO 3/8, ADDED 4 EA. Ø1/8 x 1/4 ROLL PINS -23. CH'D OVERALL HEIGHT -1 FROM 3.020 TO 3.165 +1/32-1/8, ADDED Ø.125 HOLES FOR ROLL PINS ON -3, -5, -7, ADDED FIT TO -11 FOR WELDING TO Ø1.500 COUNTERBORE. CH'D WELD AT -3 & -7. ALL CHANGES PER S.E., G.E.	1/13/11
2	CORRECTED -3 Ø.210 HOLE LOCATIONS, CH'D O.D. FROM Ø8.040 TO Ø8.00, CH'D I.D. FROM Ø6.625 TO Ø6.630, CH'D LOCATION OF AFT & FWD TEXT PER S.E.	3/11/11
3	CH'D -3 DIMENSIONS TO MEET FACTORY PART PER S.E.	12/13/11
5	-3 CH'D TOLERANCE ON DIM WAS Ø6.630 IS Ø6.630 +.003 -.000.	4/28/14



RB RED BARN MACHINE	
TITLE: REACTION CLUTCH IN RACE REMOVAL	
DWG NO. RBW6305G03031-3G-3 REV 5	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± .5° .X ± .1	
DRAWN BY: CLOUGH APPROVED: <i>D. Weil</i> HEAT TREAT: FINISH SEE -1 WELDMENT SPEC: USED ON MODEL: AW139	
SCALE: 1:2	DATE: 3-30-10
SHEET 3 of 10	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
1	ADDED MISSING DIM. 1.000 -17, CH'D -5 LENGTH IN BOM TO 7-3/4. CH'D THICKNESS -3 FROM .250 TO (.375) & CH'D BOM THICKNESS FROM 1/2 TO 3/8, ADDED 4 EA. Ø1/8 x 1/4 ROLL PINS -23. CH'D OVERALL HEIGHT -1 FROM 3.020 TO 3.165 +1/32-1/8, ADDED Ø.125 HOLES FOR ROLL PINS ON -3, -5, -7, ADDED FIT TO -11 FOR WELDING TO Ø1.500 COUNTERBORE. CH'D WELD AT -3 & -7. ALL CHANGES PER S.E., G.E.	1/13/11	RJC RW
2	CORRECTED -5 ENGRAVE NOTE, MOVED DOWEL PIN HOLES TO MATCH SIMILAR MANUFACTURED PART PER G.E.	3/11/11	RJC SE
3	CH'D -5 DIMENSIONS TO MEET FACTORY PART PER S.E.	12/13/11	RJC SE

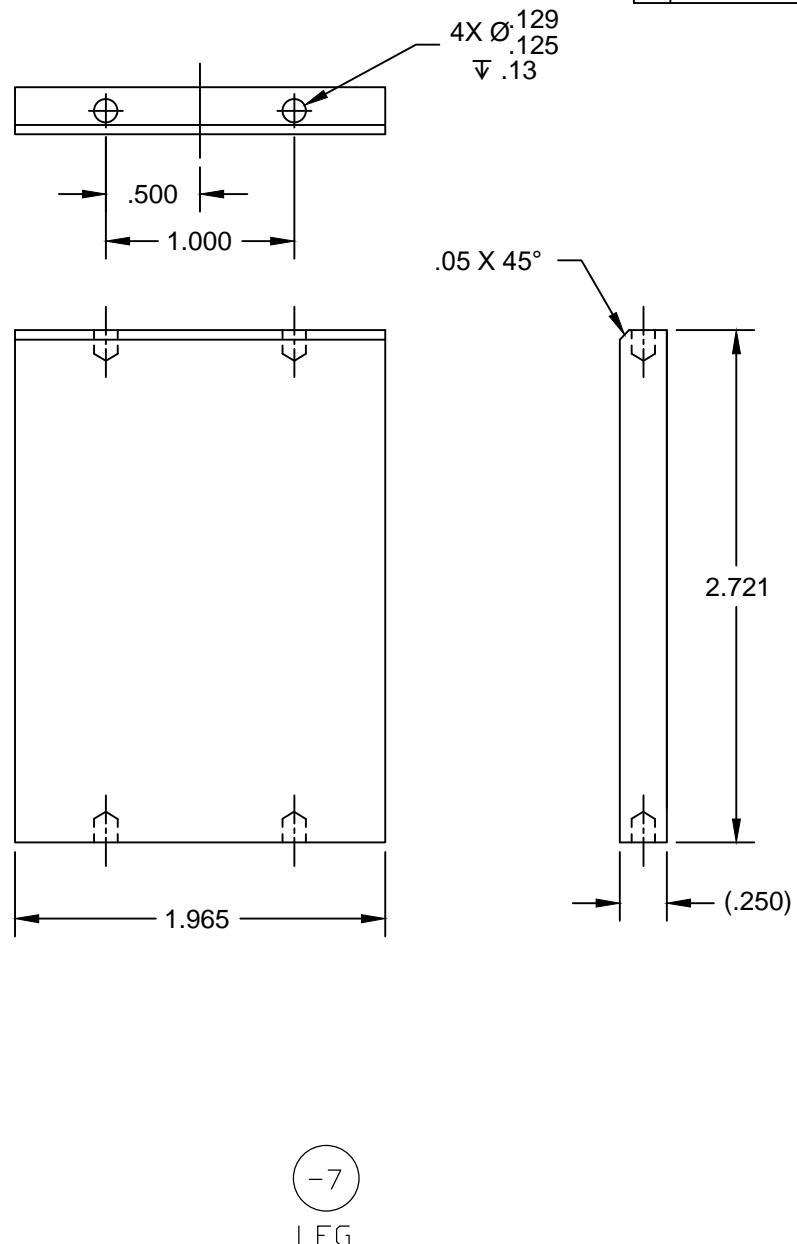


(-5)
PLATE

RED BARN MACHINE	
TITLE	
REACTION CLUTCH IN RACE REMOVAL	
DWG NO. RBW6305G03031-3G-5 REV 5	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± .5°	
HEAT TREAT	
FINISH SEE -1 WELDMENT	
SPEC	
USED ON MODEL	
AW139	
SCALE	1:2
DATE	3-30-10
SHEET	4 of 10

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

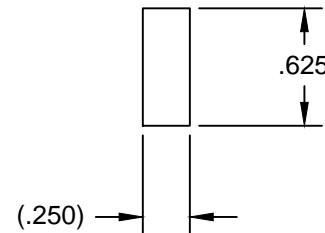
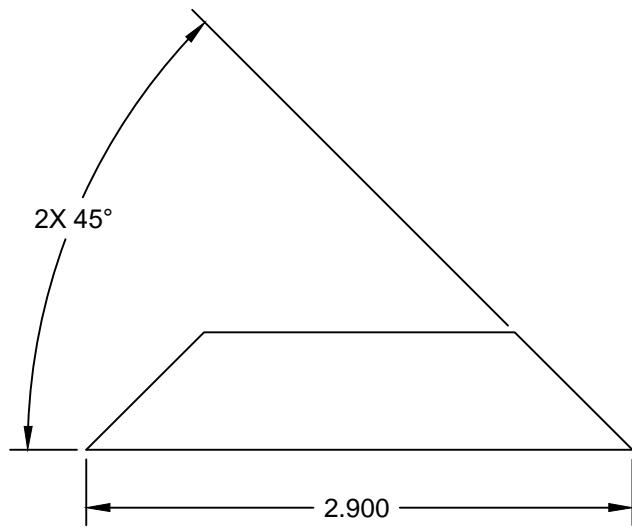
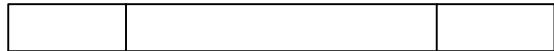
REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
1	ADDED MISSING DIM. 1.000 -17, CH'D -5 LENGTH IN BOM TO 7-3/4. CH'D THICKNESS -3 FROM .250 TO (.375) & CH'D BOM THICKNESS FROM 1/2 TO 3/8, ADDED 4 EA. $\varnothing 1/8 \times 1/4$ ROLL PINS -23. CH'D OVERALL HEIGHT -1 FROM 3.020 TO 3.165 +1/32-1/8, ADDED $\varnothing .125$ HOLES FOR ROLL PINS ON -3, -5, -7, ADDED FIT TO -11 FOR WELDING TO $\varnothing 1.500$ COUNTERBORE. CH'D WELD AT -3 & -7. ALL CHANGES PER S.E., G.E.	1/13/11	RJC RW
3	CH'D -7 DIMENSIONS TO MEET FACTORY PART PER S.E.	12/13/11	RJC SE



RB RED BARN MACHINE	
TITLE	
REACTION CLUTCH IN RACE REMOVAL	
DWG NO. RBW6305G03031-3G-7 REV 5	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
TOLERANCES ON: DECIMALS .XXX ± .005 FRACTIONS ± 1/32 .XX ± .01 ANGLES ± .5°	
DRAWN BY: CLOUGH APPROVED <i>D. Weil</i> HEAT TREAT FINISH SEE -1 WELDMENT SPEC	
USED ON MODEL AW139	
SCALE 1:1	DATE 3-30-10 SHEET 5 of 10

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REV		DESCRIPTION		DATE	INITIAL	APPROVED

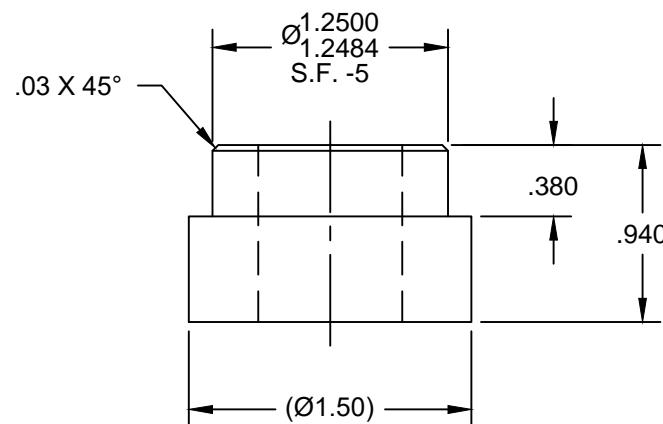
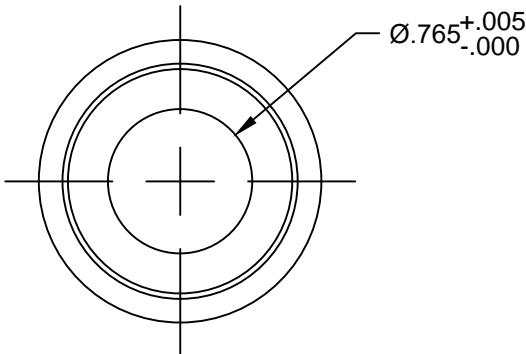


-9
GUSSET

 RED BARN MACHINE	
TITLE REACTION CLUTCH IN RACE REMOVAL	
DWG NO.	RBW6305G03031-3G-9
REV	5
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: CLOUGH
TOLERANCES ON: DECIMALS .XXX \pm .005	APPROVED <i>D. Weil</i>
.XX \pm .01	HEAT TREAT
.X \pm .1	FINISH SEE -1 WELDMENT
ANGLES \pm .5°	SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR. .015 R.	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 3-30-10
	SHEET 6 of 10

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REV		DESCRIPTION	DATE	INITIAL	APPROVED
3		CH'D -11 DESIGN PER D.W.	12/13/11	RJC	SE
5		-11 ADDED MISSING DIM .03 X 45°.	4/28/14	DPD	GE



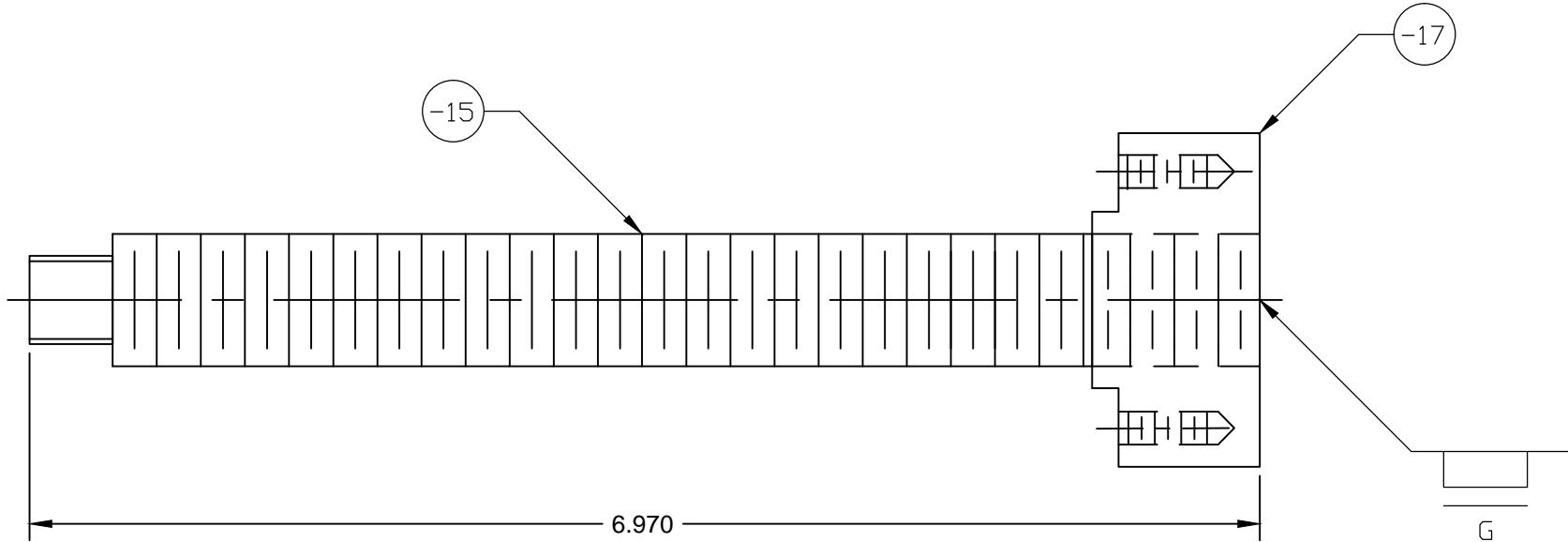
-11

BUSHING

RED BARN MACHINE	
REACTION CLUTCH IN RACE REMOVAL	
DWG NO.	RBW6305G03031-3G-11
REV	5
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: CLOUGH
TOLERANCES ON: DECIMALS .XXX \pm .005	APPROVED: <i>D. Weil</i>
.XX \pm .01	HEAT TREAT
.X \pm .1	FINISH SEE -1 WELDMENT
ANGLES \pm .5°	SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR. .015 R.	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE 1:1	DATE 3-30-10
SHEET 7 of 10	

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REV		DESCRIPTION		DATE	INITIAL	APPROVED



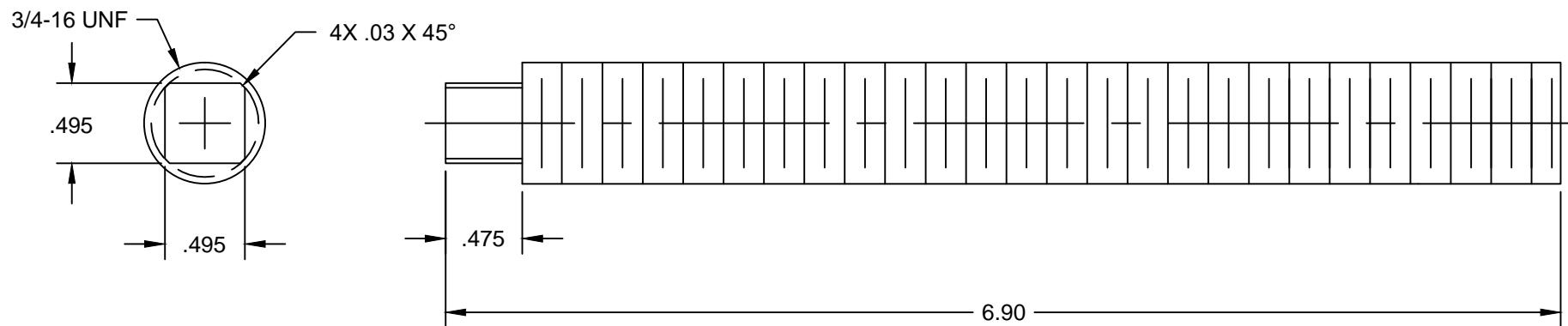
WELDMENT

-13

 RED BARN MACHINE	
TITLE	
REACTION CLUTCH IN RACE REMOVAL	
DWG NO.	RBW6305G03031-3G-13
REV	5
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: CLOUGH
TOLERANCES ON: DECIMALS .XXX \pm .005	APPROVED: <i>D. Weil</i>
.XX \pm .01	HEAT TREAT
.X \pm .1	FINISH CAD PLATE YELLOW
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR. .015 R.	SPEC QQ-P-416F, TYPE II CLASS II
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	USED ON MODEL
	AW139
SCALE 1:1	DATE 3-30-10
	SHEET 8 of 10

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REV		DESCRIPTION		DATE	INITIAL	APPROVED
3		CH'D -15 DIMENSIONS TO MEET FACTORY PART PER S.E.		12/13/11	RJC	SE



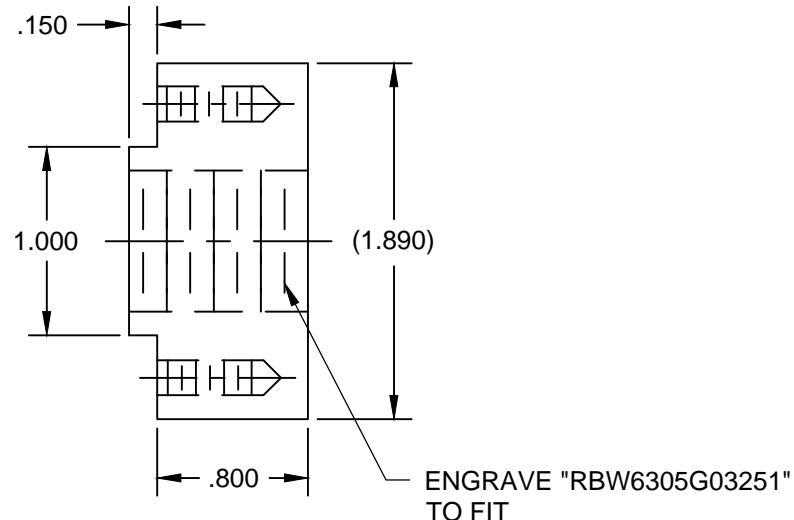
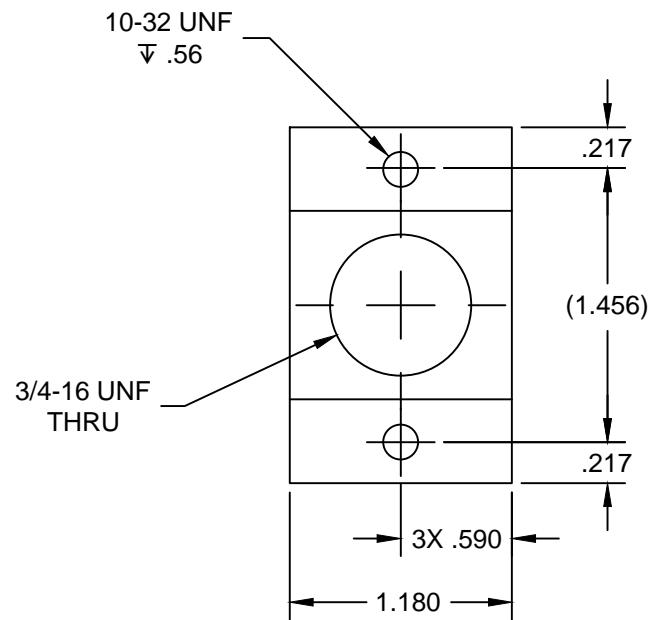
-15

BOLT

 RED BARN MACHINE	
TITLE	
TITLE	REACTION CLUTCH IN RACE REMOVAL
DWG NO.	RBW6305G03031-3G-15
REV	5
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DRAWN BY: CLOUGH
TOLERANCES ON: DECIMALS .XXX \pm .005	APPROVED <i>D. Weil</i>
.XX \pm .01	HEAT TREAT
.X \pm .1	FINISH SEE -13 WELDMENT
ANGLES \pm .5°	SPEC
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES .015 x 45° PR. .015 R.	USED ON MODEL
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	AW139
SCALE	1:1
DATE	3-30-10
SHEET	9 of 10

This drawing, specifications, and concepts contained here in are the sole property of Red Barn Machine, and may not be reproduced or used in any fashion without the prior written permission of Red Barn Machine.

REVISIONS			
REV	DESCRIPTION	DATE	INITIAL
1	ADDED MISSING DIM. 1.000 -17, CH'D -5 LENGTH IN BOM TO 7-3/4. CH'D THICKNESS -3 FROM .250 TO (.375) & CH'D BOM THICKNESS FROM 1/2 TO 3/8, ADDED 4 EA. $\varnothing 1/8 \times 1/4$ ROLL PINS -23. CH'D OVERALL HEIGHT -1 FROM 3.020 TO 3.165 $+\frac{1}{32}$ -.1/8, ADDED $\varnothing .125$ HOLES FOR ROLL PINS ON -3, -5, -7, ADDED FIT TO -11 FOR WELDING TO $\varnothing 1.500$ COUNTERBORE. CH'D WELD AT -3 & -7. ALL CHANGES PER S.E., G.E.	1/13/11	RJC RW
3	CH'D -17 DIMENSION BETWEEN HOLES FROM 1.440 PER S.E.	12/13/11	RJC SE



(-17)

HEAD

 RED BARN MACHINE	
TITLE	
REACTION CLUTCH IN RACE REMOVAL	
DWG NO. RBW6305G03031-3G-17 REV 5	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: DECIMALS .XXX $\pm .005$ FRACTIONS $\pm 1/32$.XX $\pm .01$ ANGLES $\pm 5^\circ$.X $\pm .1$	
DRAWN BY: CLOUGH APPROVED  HEAT TREAT FINISH SEE -13 WELDMENT SPEC	
UNLESS OTHERWISE SPECIFIED 1. BREAK ALL SHARP EDGES $.015 \times 45^\circ$ PR. .015 R. 2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
SCALE	1:1
DATE	3-30-10
SHEET 10 of 10	